IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A computer-implemented method for analyzing user search queries, the method comprising the acts of:

grouping a set of previous queries into a plurality of subsets along a dimension;

for each of the subsets of the previous queries, generating a concept network, each concept network including a plurality of units and a plurality of relationships defined between the units, wherein each unit of each concept network has a frequency weight;

selecting one of the units; [and]

constructing a histogram vector for the selected unit, the histogram vector having an element corresponding to each of the concept networks, wherein each element of the histogram vector has a value representative of the frequency weight of the selected unit in the corresponding one of the concept networks; and

storing the histogram vector on a data store accessible by a processor.

- 2. (Original) The method of claim 1, wherein the dimension is a time dimension.
- 3. (Original) The method of claim 1, wherein the dimension is defined by reference to one or more demographic characteristics of users.

- 4. (Original) The method of claim 1, wherein the dimension is a geographic dimension.
- 5. (Original) The method of claim 1, wherein the dimension is a vertical dimension representing a user context of the query.
- 6. (Original) The method of claim 1, further comprising the act of storing the selected unit in a unit dictionary in association with the histogram vector.
- 7. (Original) The method of claim 6, further comprising the acts of:
 receiving a subsequent query;
 parsing the subsequent query into one or more constituent units;
 obtaining the histogram vector for at least one of the constituent units from
 the unit dictionary; and

responding to the subsequent query based at least in part on the histogram vector.

- 8. (Original) The method of claim 7, wherein the act of responding further includes suggesting a related search based at least in part on the histogram vector.
- 9. (Original) The method of claim 7, wherein the act of responding further includes resolving an ambiguity of one of the constituent units based at least in part on the histogram vector.

- 10. (Original) The method of claim 6, further comprising the acts of: identifying a group of units that have similar histogram vectors; and storing group membership information for the units of the group in the unit dictionary.
- 11. (Original) The method of claim 6, further comprising the acts of:
 selecting a base unit from the unit dictionary;
 identifying a plurality of related units for the base unit in the unit dictionary;

determining a most common histogram vector among the related units; and

storing the most common histogram vector in the unit dictionary as a proxy histogram vector for the base unit.

- 12. (Original) The method of claim 11, wherein the related units include extensions of the base unit.
- 13. (Original) The method of claim 1, wherein each element of the histogram vector has a binary value indicating a presence or absence of the target unit in the corresponding concept network.

- 14. (Original) The method of claim 1, further comprising the act of normalizing each of the histogram vectors.
- 15. (Original) A system for processing queries, the system comprising:

a concept network builder module configured to receive a set of previous user queries and to generate a concept network therefrom, the concept network including a plurality of units and a plurality of relationships defined between the units, wherein each unit of the concept network has a frequency weight; and

a histogram builder module configured to receive a plurality of concept networks generated by the concept network builder from different sets of previous user queries and further configured to select one of the units and to generate a histogram vector for the selected unit,

wherein the histogram vector has an element corresponding to each of the concept networks, wherein each element of the histogram vector has a value representative of the frequency weight of the unit in the corresponding one of the concept networks.

16. (Original) The system of claim 15, further comprising a unit dictionary configured to store the selected unit in association with the histogram vector generated from the selected unit by the histogram builder module.

- 17. (Original) The system of claim 16, further comprising a histogram analysis module configured to obtain units and histogram vectors for those units from the unit dictionary and to detect a pattern of the histogram vectors.
- 18. (Original) The system of claim 17, wherein the histogram analysis module is further configured to select a plurality of units from the unit dictionary, to sort the selected units based on the histogram vectors, and to define a group of units that have similar histogram vectors.
- 19. (Original) The system of claim 17, wherein the histogram analysis module is further configured to select a base unit from the unit dictionary, to identify a plurality of related units for the base unit in the unit dictionary, to determine a most common histogram vector among the related units, and to store the most common histogram vector in the unit dictionary as a proxy histogram vector for the base unit.
- 20. (Original) The system of claim 16, further comprising a query response module configured to receive a subsequent query including one or more constituent units and to respond to the subsequent query based at least in part on a histogram vector stored in the unit dictionary for at least one of the constituent units.
- 21. (Currently amended) A computer program product comprising a computer readable medium encoded with program code, the program code being executable by a processor, the program code including:

program code for grouping a set of previous queries into a plurality of subsets along a dimension;

program code for generating a concept network for each of the subsets of the previous queries, each concept network including a plurality of units and a plurality of relationships defined between the units, wherein each unit of each concept network has a frequency weight;

program code for selecting one of the units; [and]

program code for constructing a histogram vector for the selected unit, the histogram vector having an element corresponding to each of the concept networks, wherein each element of the histogram vector has a value representative of the frequency weight of the selected unit in the corresponding one of the concept networks; and

<u>program code for storing the histogram vector on a data store accessible</u> by the processor.

- 22. (Original) The computer program product of claim 21, wherein the program code further includes program code for storing the selected unit in a unit dictionary in association with the histogram vector.
- 23. (Original) The computer program product of claim 21, wherein the program code further includes:

program code for receiving a subsequent query;

program code for parsing the subsequent query into one or more constituent units;

program code for obtaining the histogram vector for at least one of the constituent units from the unit dictionary; and

program code for responding to the subsequent query based at least in part on the histogram vector.